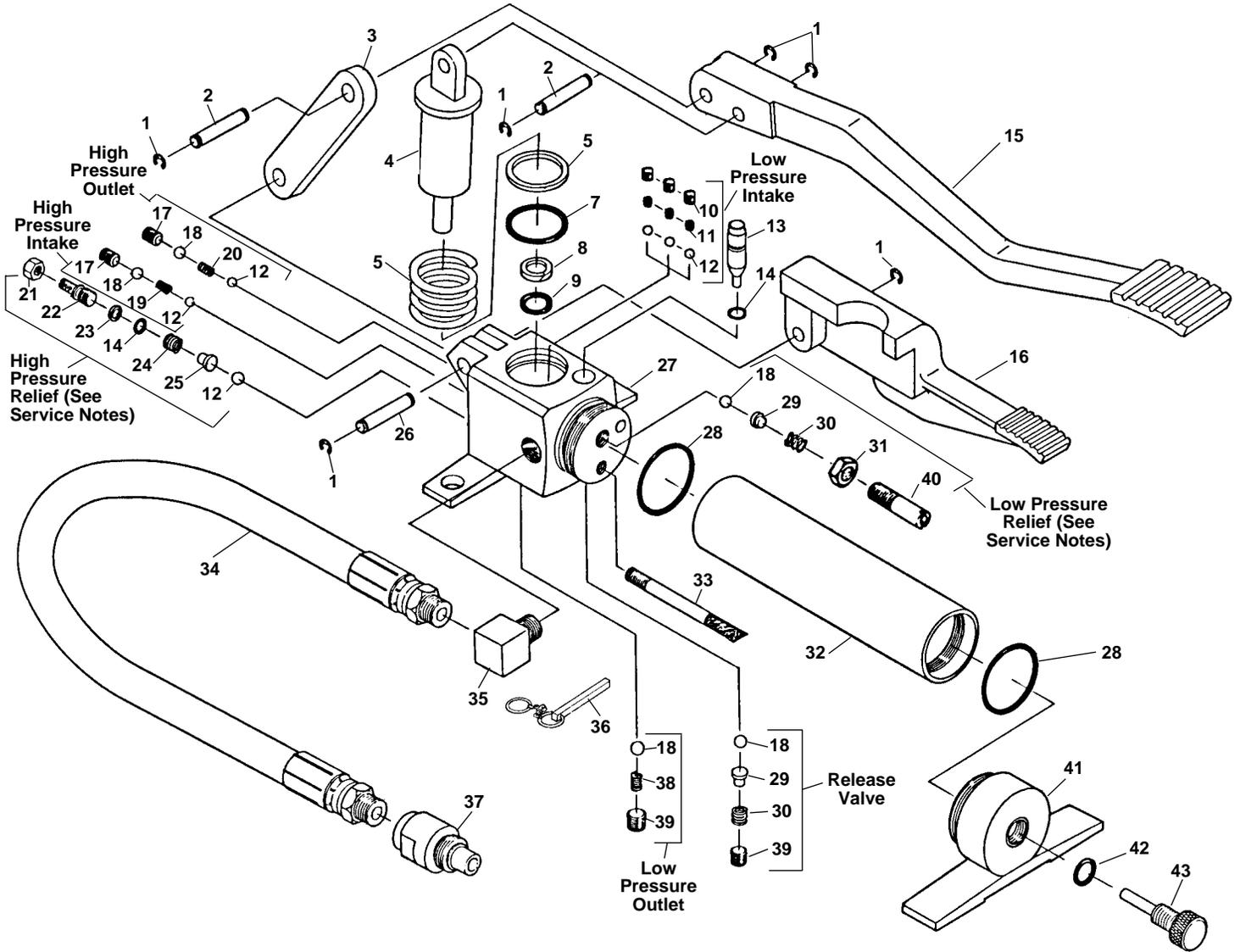


Two Stage, Two-Way Valve



NOTE: Order parts by Catalog Number only.
DO NOT order by Reference Number.

NOTE: All components are METRIC dimensions. See Service Notes for Spring Identification.

Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description	Ref. No.	Catalog No.	Description
—	24547	HF-18 Foot Pump	16	24382	Release Pedal	32	24407	Reservoir
1	24497*	Snap Ring (6)	17	24337	Set Screw (2)	33	24402	Intake Tube w/Filter
2	24367	Pin (2)	18	24187*	Steel Ball (5) (6mm)	34	21857	Hydraulic Hose, 10 ft.
3	24372	Lever Crank	19	24342*	Spring	35	21702	Elbow, 90 Deg., 3/8" NPTF
4	24282	Piston	20	24332*	Spring	36	24437	Locking Pin
5	24287	Spring	21	24357	Jam Nut	37	24107	Hose Half Coupler
6	24292*	Back-up Ring	†22	24352	Adjusting Plug	38	24327*	Spring
7	24297*	O-Ring	23	24347	Back-up Ring	39	24322	Pipe Plug (2)
8	24137*	Back-up Ring	24	24257	Spring	40	24267	Adjusting Plug
9	24142*	O-Ring	25	24252	Ball Guide	41	24412	End Bell
10	24302	Set Screw (3)	26	24362	Pin	42	24417*	O-Ring
11	24192*	Spring (3)	27	24277	Pump Body	43	24422	Filler Cap/Dipstick
12	24152*	Steel Ball (6) (4.8 mm)	28	24507	O-Ring (2)	Following items not shown:		
13	24307	Release Valve Stem	29	24387	Ball Guide (2)	26037*	Decal, Trade Name	
14	24157*	O-Ring (2)	30	24392*	Spring(2)	26072	Repair Kit (includes * items)	
15	24377	Foot Pedal	31	24262	Jam Nut			

Items marked with an asterisk (*) are included in the Repair Kit.
†See Service Notes.

RESERVOIR CAPACITY

Proper Oil Fill: 18.6 Cu. In. = 10.5 Ozs.
Fill to upper line on dipstick.

LOW PRESSURE RELIEF VALVE SETTING

Screw in adjusting plug (Ref. 40) by hand until contact against spring is felt. Turn in 45 to 60 degrees further and lock into place with jam nut. Relief pressure is now properly set.

PRIMING THE PUMP

When reassembling pump, fill the piston cavity in pump body three-fourths full of oil before installing piston. This will assure instant priming on initial operation.

SPRING IDENTIFICATION Shown actual size

	Ref. 24 - Cat. No. 24257 (Small I.D. .114) Relief Valve
	Ref. 30 - Cat. No 24392 (2) Low Pressure Relief, High Pressure Return
	Ref. 38 - Cat. No. 24327 Low Pressure Output
	Ref. 20 - Cat. No. 24332 High Pressure Output
	Ref. 19 - Cat. No. 24342 High Pressure Inlet
	Ref. 11 - Cat. No. 24192 (3) Low Pressure Inlet

HIGH PRESSURE RELIEF VALVE SETTING

The High Pressure Relief Valve on this pump is factory preset at 9,400 to 10,500 PSI. The setting can be checked or reset as follows.

- A. Attach a 15,000 PSI gauge to outlet port of pump.
- B. Operate pump cautiously to build pressure while watching gauge.
- C. If maximum pressure exceeds 10,500 PSI:
 - 1. Stop pumping and open release valve.
 - 2. Turn adjusting plug, Ref. 22, counterclockwise 1/2 turn and retest.
- D. If maximum pressure is less than 9,400:
 - 1. Turn adjusting plug clockwise 1/8 turn and retest.
- E. Continue Step "C" or "D" until specified range is achieved. Lock in place with jam nut, Ref. 21.

Refer to the Operator's Manual that accompanies this product for detailed information regarding safety, set-up, operation, maintenance, accessories and troubleshooting.

**Address additional inquiries to THE RIDGE TOOL COMPANY,
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400 CLARK STREET, ELYRIA, OH 44035
PHONE 1-800-519-3456**